

CLAIM AMENDMENT

Please amend claims 1, and 8 according to the following clean versions.

- 5 1. (*Once Amended*) A method for simultaneously compensating a source drift of a light source and a detector drift of a light detector, said method comprising:
- a) providing a first beam path with a crossing for a probe beam traveling from said light source to said light detector along a test location;
 - b) providing a second beam path from said light source to said light detector along said
 - 10 crossing and not along said test location;
 - c) positioning at said test location a calibration sample for sending a known response beam along said first beam path to said light detector in response to said probe beam;
 - d) calibrating said light source and said light detector using said known response beam;
 - e) temporarily placing a reference sample at said beam crossing for sending a reference
 - 15 beam along said second beam path to said light detector in response to said probe beam;
 - f) establishing a relation between said known response beam and said reference beam;
 - g) defining a group of operational calibration parameters including a set time period, drift of said light source or drift of said light detector;
 - h) positioning at said test location a test sample and testing said test sample;
 - 20 i) interrupting said testing in conjunction with said operational calibration parameters and temporarily placing said reference sample at said beam crossing for simultaneously compensating said source drift and said detector drift using said established relation while said test sample remains in position.

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8. (Once Amended) A system for simultaneously compensating a source drift of a light source and a detector drift of a light detector, said system comprising:

a) a test location;

b) a first beam path from said light source to said light detector along said test location;

5 c) a beam crossing along said first beam path;

d) a second beam path from said light source to said light detector along said beam crossing and not along said test location, said second beam path being substantially part of said first beam path;

10 e) a calibration sample for positioning at said test location and for sending a known response beam along said second beam path to said light detector in response to said probe beam;

f) a first control unit for calibrating said light source and said light detector using said known response beam;

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15 g) a reference sample for placing at said beam crossing for sending a reference beam along said second beam path to said light detector in response to said probe beam, wherein said reference sample is configured for being placed in response to at least one of a group of operational calibration parameters including a set time period, drift of said light source or drift of said light detector; and

20 h) a second control unit for simultaneously compensating said source drift and said detector drift using an established relation between said known response beam and said reference beam.
